



A small harvester head for a large production.



Weight: 726 kg

Cutting diameter: 53 cm

Ideal tree size: 8-35cm

Recommended Working Pressure: 23-25 MPa

The SP 461 LF is a very fast and agile high-performance harvester head, designed according to SP Maskiner's Low Friction principle, for minimum friction and maximum productivity. It is perfectly installed on medium-sized to long-range forwarders but also on smaller forwarders for thinning work. The fast drive, combined with low weight and very compact dimensions, ensures maximum efficiency and productivity, even in dense stands with small diameters. For larger diameters, the ingenious SP LogHold patents and proportional angle drive rollers give the SP 461 LF impressive manoeuvrability and capacity. It is, in every way, small but already big. The SP 461 LF achieves its maximum capacity on trees with a diameter of 8 to 35 cm in height, but thanks to the LF principle, it also effectively processes thicker trees. The SP 461 LF is compatible with virtually all control systems on the market. It can be used in combination with the following systems : Dasa280, Dasa380, Dasa4, Dasa4 Compact, Dasa Forester, John Deere Timbermatic, Motomit IT, Motomit PC, Komatsu MAXI, Ponsse Opti, Technion, Techno Matic, TOC-MD.

Knife Design.

The delimbing knives are cast in high-strength steel and equipped with long cutting edges. This means that the limbs are cut off instead of being broken off. This minimizes friction during delimbing and allows the trunk to be fed through easily.

Proportionally angled feeder rollers.

This smart solution means that when the harvester head is fully open, i.e. at maximum tree size, the feed rollers are at their greatest angle and provide maximum carrying force against the trunk. As the feed rollers carry the trunk, the pressure on the delimbing knives can be reduced, which means less friction and the harvester head can feed the trunk through quickly and easily..

Proportional pressure.

Proportional pressure ensures that the harvester head automatically works at the correct pressure in relation to tree diameter. This means that the friction between the trunk and harvester head is minimized and that the harvester head run at peak efficiency. Individual settings per tree species maximises production further.

LogHold.

LogHold is an evolution of proportional pressure and means that the delimbing knife pressure against the trunk can be reduced, without the risk of the trunk being dropped. If the trunk is about to fall, LogHold regulates the knife pressure so that the trunk is held in the right position. The amount by which the diameter may increase before LogHold takes action is set in the control system. No additional sensors are required.

Hydraulics

Min. pump capacity	250 l/min
Pression de service recommandée	23-25 MPa

Feeding

Roller motors	398 cc
Max. opening	420 mm
Feed speed	5 m/s
Feeding force	18 kN
Proportional pressure	Yes

Cutting

Cutting diameter	530 mm
Chain speed	40 m/s
Saw motor	20 cc
Saw unit	SuperCut 100
QuickCut	Yes

Delimbing

Movable knives	4 incl. top knife
Fixed knives	1
Delimbing diameter tip to tip	350 mm
Min. delimbing diameter	30 mm
Proportional pressure	Yes
LogHold	Yes

Weight and dimensions

Width closed	850 mm
Width open	1130 mm
Height	1230 mm
Weight	726 kg

Additional equipment.

- **Color marking:** Used to optimize forwarding work when the assortments are difficult to distinguish by sight alone.
- **Multi-tree handling:** Optional equipment for heightened production when working with small-diameter stands as SP's multi-tree handling enables you to fell and accumulate several stems to be processed together.
- **Find end function:** With the aid of a sensor mounted in the saw unit housing, the head automatically locates the end of the stem at the push of a button.
- **Roller motors:** Different size roller motors are available to optimize the head's performance depending on working conditions and base machine size. Choose between 398 cc and 450 cc motors.
- **Light for saw unit housing:** An LED lamp in the saw unit housing offers additional illumination of the work area.
- **Eucalyptus kit:** Debarking kit for eucalyptus trees.
- **Measuring system integration:** SP harvester heads can be used together with essentially any measuring system on the market. This means lower investment costs and a quicker startup as the operator need not learn a new system.
- **Dasa5 complete measuring system:** A complete measuring system is required if mounting the head on, say, an excavator or a tracked harvester.